

REMARKS

Applicants submit that the added claims 45-51 are supported by the above-identified specification filed on December 31, 2001 and add no new matter to the specification, *see*, Specification, EXAMPLE XIII, Page 34. Therefore, the entry of the above-identified amendment is respectfully requested prior to examination on the merits.

Respectfully submitted,

LYON & LYON LLP

By: 

Samuel N. Tiu
Reg. No. 47, 997

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LYON & LYON LLP
633 W. Fifth Street, Suite 4700
Los Angeles, CA 90071
(213) 489-1600 – Fax (213) 955-0440

Clean Claim Sheet

45. (New) A method for a high-throughput functional screening of a plurality of polynucleotides comprising the steps of:
associating a first polynucleotide to a first non-human sperm cell through a first non-liposome based linker in a first well on a plate;
simultaneously associating a n th polynucleotide to a n th non-human sperm cell through a n th non-liposome based linker in a n th well on the plate, wherein n is at least 2;
fertilizing a first non-human egg cell with the first non-human sperm cell associated with the first polynucleotide through the first liposome based linker to form a first zygote; and
simultaneously fertilizing a n th non-human egg cell with the n th non-human sperm cell associated with the n th polynucleotide through the n th liposome based linker to form a n th zygote, wherein n is at least 2.
46. (New) The method of claim 45 wherein the non-liposome based linker is selected from the group consisting of a peptide, a protein, a glycoprotein, and a carbohydrate.
47. (New) The method of claim 46 wherein the protein is an antibody.
48. (New) The method of claim 45 wherein the polynucleotide molecule is a DNA molecule.
49. (New) The method of claim 45 wherein the non-human sperm cell is selected from the group consisting of a mouse sperm cell, a cow sperm cell, a pig sperm cell, a chicken sperm cell, a sheep sperm cell, and a goat sperm cell.
50. (New) The method of claim 45 wherein the plate has at least m wells, wherein m is no less than n and m is at least 2.
51. (New) The method of claim 45 wherein the plate has at least 2 wells.